LX System Engineering, Integration and Test (SEIT)

ATM Status

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SIWG 10

Overview

- ATM Working Group #6 Review
- ATM Program Status

ATM #6 Review

- ATM Working Group #6 held at L3Com facility, Salt Lake
- Participation from large cross-section of U-2/DCGS community
  - ASIP program participated for the first time
  - Need to increase other services participation in this forum
- Briefs provided on the following topics:
  - System Briefs (SYERS-2A, RAS-1R ATM, DCGS)
  - ATM over SATCOM
  - IPv6 – possibilities for improved networking

ATM #6 Review – Cont

- **Issues identified:**
  - Need to ensure other services are in synch with datalink upgrades
    - Specifically ANIU/GNIU ver 2.5 due to release late FY04
  - Funding reallocated for CIP install in DGS-2
    - Impacts OT&E of DDL-II with ASARS-2A and SYERS-2A if not installed by end of CY 04
  - CIP software update (SYERS-2A) required at Site 6 to complete BLOS testing
    - Time required to integrate new CIP S/W baseline into Site 6 not accounted for
  - SYERS-2A test schedule late to need to support planned DDL-II delivery to 9RW
    - Action to SYERS-2A team to look at schedule options

U-2/DCGS ATM Program

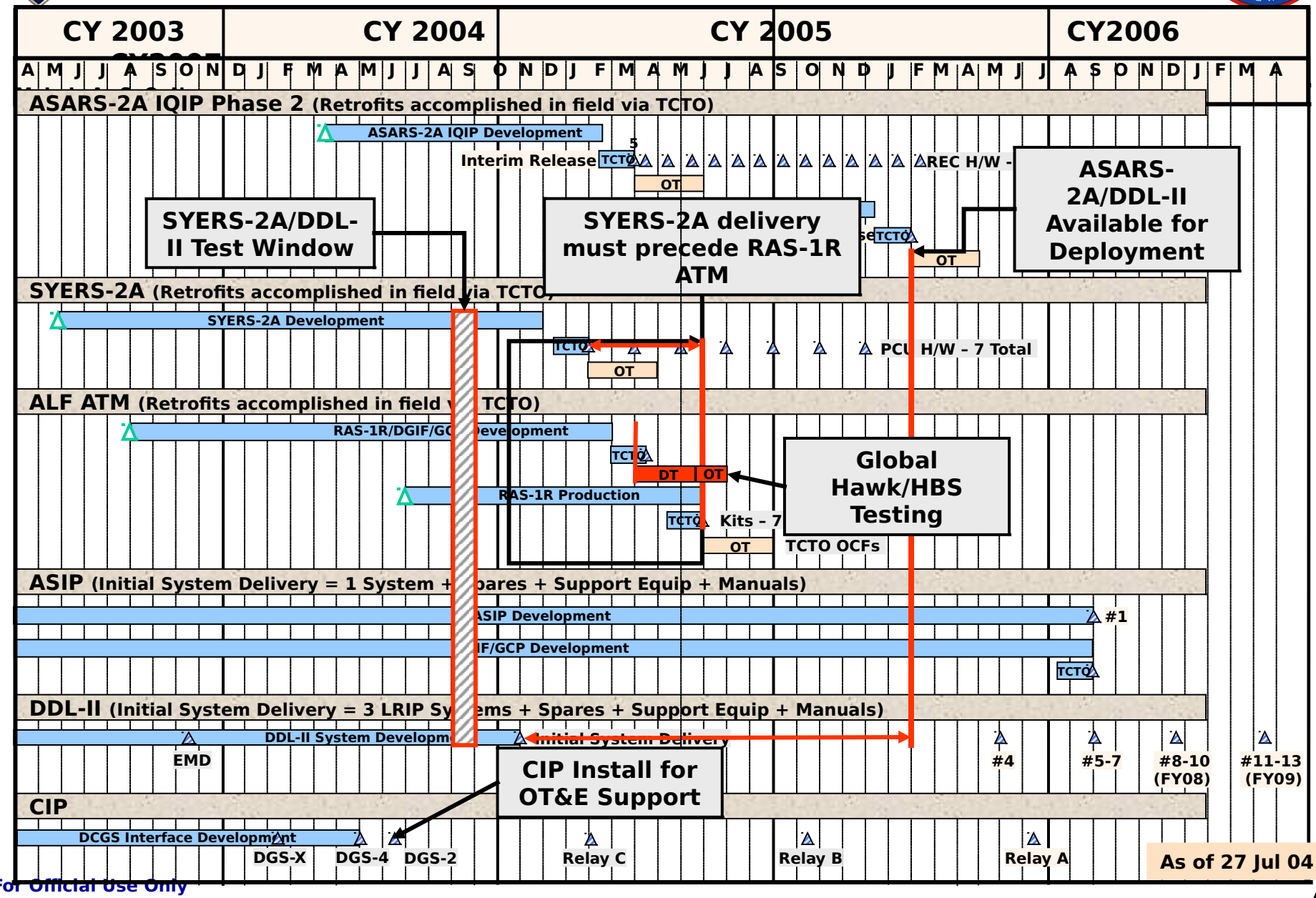
- ASC/RA assigned LX SEIT role as ATM Program Integrator
  - Current program authority resides with individual PM's
- Current ATM program consists of several separate programs - multiple contracts with multiple contractors

Program	PM Org	Contractor(s)
DDL-II	ASC/RAJD	L3 Com, LM Aero
SYERS-2A	WR-ALC/LXAS	BF Goodrich, Northrup Grumman, LM Aero
ALF ATM (RAS-1R, DGIF/GCP)	WR-ALX/LXGG, WR-ALC/LXAS	L3 Com, Raytheon, LM Aero
CIP	ESC/SRHG, ASC/RAJI	Northrup Grumman
ASARS-2A	ASC/RAJI	Raytheon, LM Aero
ASIP	ASC/RAJS	Northrup Grumman, Raytheon, L3 Com, LM Aero

U-2/DCGS ATM Program - Performance

- **Key Performance Parameters (Derived)**
  - Provide a common networking architecture through use of ATM protocol
  - ATM sensors must operate with all current and future U-2 datalinks (IADL-II, SPUR-II, DDL-II)
  - ATM sensors must operate with all current and future AF-DCGS architectures (LOS, Reachback, BLOS)
  - ATM sensors must operate with all current and future U-2 aircraft, (Block 10/Block 10 BWC, Block 20/Block 20 BWC), with exception of Block 0
  - No degradation of current sensor capability

U-2/DCGS ATM Program – Schedule



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U-2/DCGS ATM Program

- **Watch Items**
  - SYERS-2A testing requirements with DDL-II system
    - Currently very small window of opportunity
    - Install of CIP Software upgrade at Site 6
  - SYERS-2A must field prior to RAS-1R ATM
    - SYERS-2 and RAS-1R ATM cannot operate simultaneously
    - Wideband datalink can support either ATM or non-ATM, not both at same time
  - DDL-II deployment contingent on successful completion of Phase 2 ASARS-2A Image Quality Improvement Program (IQIP)
  - DGIF/GCP ATM Ground Station Mod required for Global Hawk/High Band System testing
    - Currently very small window between DGIF/GCP development testing and GH/HBS testing
    - If selection of DGS for OT&E is optimized for GH/HBS, location may not support RAS-1R ATM OT&E
  - CIP installation at DGS-2 to support U-2 OT&E efforts